

Pemrograman Berbasis Web (PBW)

Tugas 3

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Kelas 4B Sistem Informasi

1. Buatlah program javascript untuk mencetak deret Fibonacci!

- Code HTML:

```
Praktikum > praktikum 3 > < Tugapraktikum3.1.html > html > body > script
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Deret Fibonacci</title>
5
6   <!-- Sisipkan script Bootstrap dari server CDN -->
7   <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoHXIA+058RXPxPg6fy4IWv"
8
9   <!-- Sisipkan script JavaScript -->
10 </head>
11 <body>
12   <script src="script3.1.js"></script>
13   <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-K3o2DKtIkVYIK3UENzmM7KcKrr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN" cro
14   <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js" integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39
15   <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js" integrity="sha384-JZr65peJh4U02d8J0t6vLEHfe/3Q61RRSQQxSFFMp11MquVdAy
16
17   <div class="container mt-5">
18     <h1 class="mb-4">Deret Fibonacci</h1>
19     <div class="form-group row">
20       <label for="inputNumber" class="col-sm-2 col-form-label">Masukkan bilangan:</label>
21       <div class="col-sm-10">
22         <input type="number" class="form-control" id="inputNumber" placeholder="Masukkan bilangan">
23       </div>
24     </div>
25     <button type="button" class="btn btn-primary onclick="fibonacci()">Cetak Deret</button>
26     <div class="mt-4">
27       <label for="result">Hasil:</label>
28       <output type="number" class="form-control" id="result" placeholder="Masukkan bilangan">
29     </div>
30   </div>
31 </body>
32 </html>
```

- Code JavaScript:

```
Praktikum > praktikum 3 > script3.1.js > ...
1 function fibonacci() {
2   var n = document.getElementById("inputNumber").value;
3   var result = "";
4   var a = 0, b = 1;
5   for (var i = 0; i < n; i++) {
6     result += a + ", ";
7     var temp = a + b;
8     a = b;
9     b = temp;
10  }
11  document.getElementById("result").innerHTML = result;
12 }
13
14
15
```

- Output

Deret Fibonacci

Masukkan bilangan:

Cetak Deret

Hasil:

Deret Fibonacci

Masukkan bilangan:

Cetak Deret

Hasil:

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377,

2. Buatlah kalkulator dengan menggunakan javascript serta buat lah menggunakan arrow function dan spread operator yang terdiri dari (+-/*%)

- Code HTML:

```
Praktikum > praktikum 3 > TugasPraktikum3.2.html > html > body > div.container.mt-4 > div.row > div.col-md-4 > div.card
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">
7   <title>Kalkulator</title>
8 </head>
9 <body>
10   <script src="script3.2.js"></script>
11   <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-K3o2DKtIkvYIK3UENzmM7KcKkr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN" cr
12   <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js" integrity="sha384-ApNbgh9B+Y1QKt3Rn7W3mgPxmU9K/ScQsAP7hUibX3
13   <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js" integrity="sha384-JZR6Spejh4U02d8j0t6vLEHfe/JQGiRRSQQxS5FFWp1lMquVdA
14 <div class="container mt-4">
15   <div class="row">
16     <div class="col-md-4">
17       <div class="card">
18         <div class="card-header text-center">Kalkulator</div>
19         <div class="card-body">
20           <input type="text" class="form-control mb-2" id="number1" placeholder="Masukkan angka pertama">
21           <input type="text" class="form-control mb-2" id="number2" placeholder="Masukkan angka kedua">
22           <button class="btn btn-primary btn-block mb-2" onclick="calculate('+')">+</button>
23           <button class="btn btn-primary btn-block mb-2" onclick="calculate('.')">.</button>
24           <button class="btn btn-primary btn-block mb-2" onclick="calculate('*')">*</button>
25           <button class="btn btn-primary btn-block mb-2" onclick="calculate('/')">/</button>
26           <button class="btn btn-primary btn-block mb-2" onclick="calculate('%')">%</button>
27           <input type="text" class="form-control" id="result" placeholder="Hasil">
28         </div>
29       </div>
30     </div>
31   </div>
32 </div>
33 </body>
34 </html>
```

- Code JavaScript:

```
Praktikum > praktikum 3 > js script3.2.js > calculate
1  const calculate = (operator) => {
2    const number1 = parseFloat(document.getElementById("number1").value);
3    const number2 = parseFloat(document.getElementById("number2").value);
4    let result;
5
6    switch (operator) {
7      case '+':
8        result = number1 + number2;
9        break;
10     case '-':
11       result = number1 - number2;
12       break;
13     case '*':
14       result = number1 * number2;
15       break;
16     case '/':
17       result = number1 / number2;
18       break;
19     case '%':
20       result = number1 % number2;
21       break;
22     default:
23       break;
24   }
25
26   document.getElementById("result").value = result;
27 }
```

- Output

Kalkulator
Masukkan angka pertama
Masukkan angka kedua
+
-
*
/
%
Hasil

Kalkulator
100
2
+
-
*
/
%
50